

Amendment Dated November 15, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (currently amended) An electrical conductor comprising:

 a conductor coated in an insulating layer, itself coated in a bonding layer, ~~the~~
~~conductor being characterized in that~~ wherein said bonding layer is obtained from a composition
comprising a thermoplastic polymer and a settable resin.

2. (currently amended) An electrical conductor according to claim 1, ~~[[characterized~~
~~in that]]~~ wherein the settable resin is photocurable or thermosettable.

3. (currently amended) An electrical conductor according to claim 1 ~~[[or claim 2]]~~,
~~[[characterized in that]]~~ wherein the thermoplastic polymer presents a glass transition
temperature greater than or equal to 150°C.

4. (currently amended) An electrical conductor according to ~~[[any one of]]~~ claim~~[[s]]~~

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1 [[to 3]], [[characterized in that]] wherein when the thermoplastic polymer is semi-crystalline, the thermoplastic polymer presents a melting temperature greater than or equal to 200°C.

5. (currently amended) An electrical conductor according to [[any one of]] claim[[s]]
1 [[to 4]], [[characterized in that]] wherein the thermoplastic polymer is at least partially soluble in the settable resin.

6. (currently amended) An electrical conductor according to [[any one of]] claim[[s]]
1 [[to 5]], [[characterized in that]] wherein the thermoplastic polymer is selected from one or more of the following polymers: polystyrenes; polyetheretherketones; polyetherimides; polyamides; polyolefins and copolymers of polyolefins; polysulfones; polyurethanes; polyesters; cyclic oligoesters; polyimides and copolymers of polyimides; polyphenylene ethers; polyphthalamides; vinyl polychlorides; polyacrylics; polymethacrylates; and polycarbonates.

7. (currently amended) An electrical conductor according to [[any one of]] claim[[s]]
1 [[to 6]], [[characterized in that]] wherein the settable resin is selected from epoxy resins, vinyl ester resins, unsaturated polyester resins, phenolic resins, alkyl resins, acrylic resins, ester cyanates, and benzoxazines.

8. (currently amended) An electrical conductor according to [[any one of]] claim[[s]]
1 [[to 7]], [[characterized in that]] wherein for a thermosettable resin, said composition includes
at least one of the following compounds: a curing compound that is chemically reactive with said
settable resin, and a curing catalyst.

9. (currently amended) An electrical conductor according to claim 8, [[characterized
in that]] wherein the resin is thermosettable and is an epoxy homopolymer and preferably a
diglycidyl ether of bisphenol-A, and the setting compound is selected from amine compounds,
carboxylic anhydrides, and polyamides.

10. (currently amended) An electrical conductor according to [[any one of]] claim[[s]]
1 [[to 9]], [[characterized in that]] wherein said composition contains 30% to 60% parts by
weight of polyphenylene oxide and 70% to 40% parts by weight of a mixture containing
diglycidyl ether of bisphenol-A and an amine selected from 4,4'-methylenebis-(2,6-diethyl)
benzenamine amine and 4,4'-methylenebis-(3-chloro-2,6-diethyl) benzenamine.

11. (currently amended) An electrical conductor according to [[any one of]] claim[[s]]

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1 [[to 6]], [[characterized in that]] wherein the settable resin is a photocurable resin selected from one of the following resins: acrylate resins; methacrylate resins; epoxy resins; and vinyl ethers.

12. (currently amended) An electrical conductor according to [[any one of]] claim[[s]] 1 [[to 6]], [[characterized in that]] wherein for a photocurable resin, the composition includes a photoinitiator.

13. (currently amended) A method of manufacturing an electrical conductor said method comprising the steps of:

[[(1, 2) coated]] coating said electrical conductor with a bonding layer [[(4)]] according to [[any one of]] claim[[s]] 1 [[to 12]], ~~the method being characterized in that it comprises~~ further comprising the step of applying said composition on said electrical conductor coated in said insulating layer, and applying treatment to cause said settable resin to be cured at least in part.

14. (currently amended) A method according to claim 13, [[characterized in that]] wherein the curing treatment is selected from at least one of the following treatments: heat treatment, ultraviolet type radiation.